CLAIMS

1. An alkali-free glass which comprises:

SiO_2 in an amount of from 40 to 70% by weight;

Al_2O_3 in an amount of from 6 to 25% by weight;

B_2O_3 in an amount of from 5 to 20% by weight;

MgO in an amount of from 0 to 10% by weight;

CaO in an amount of from 0 to 15% by weight;

BaO in an amount of from 0 to 30% by weight;

SrO in an amount of from 0 to 10% by weight;

ZnO in an amount of from 0 to 10% by weight,

each based on the total amount of said glass, and

helium and/or neon in an amount of from 0.0001 to 2 μl/g (0°C, 1 atm.).

2. The alkali-free glass according to claim 1, which further comprises a fining component.

3. The alkali-free glass according to claim 2, wherein the fining component is at least one selected from the group consisting of SO_3, Sb_2O_3, SnO_2 and Cl_2.

4. The alkali-free glass according to claim 3, wherein SO_3 is contained in an amount of from 0.0001 to 0.03 % by weight based on the total amount of said glass.

5. The alkali-free glass according to claim 3, wherein Sb_2O_3 is contained in an amount of from 0.05 to 3 % by weight based on the total amount of said glass.

6. The alkali-free glass according to claim 3, wherein SnO_2 is contained in an amount of from 0.05 to 1 % by weight based on the total amount of said glass.

7. The alkali-free glass according to claim 3, wherein Cl_2 is contained in an amount of from 0.005 to 1 % by weight based on the total amount of said glass.

8. A transparent glass substrate for a liquid crystal display which is obtainable by the alkali-free glass according to any one of claims 1 to 7.